

Title (en)

Developer cartridge and image forming apparatus to which developer cartridge is applied

Title (de)

Entwicklerkartusche und Bilderzeugungsvorrichtung, auf die die Entwicklerkartusche angewandt wird

Title (fr)

Cartouche de développeur et appareil de formation d'images auquel la cartouche de développeur est appliquée

Publication

**EP 2511773 B1 20190410 (EN)**

Application

**EP 12164066 A 20120413**

Priority

- JP 2011091258 A 20110415
- JP 2012026991 A 20120210

Abstract (en)

[origin: EP2511773A1] A developer case (50) that contains developer and supplies the developer to another device (33) in a specified replenishing position includes a main body (51) and a rotating unit (54). The main body (51) includes a bottom wall (511), a top wall (515), and first and second side walls (512, 513). The rotating unit (54) includes a rotation shaft (541), a transportation member (55, 56), and a drive input member (54G). The first and second side walls (512, 513) respectively have first and second linear inner surfaces (512A, 513A). When the developer case (50) is in the replenishing position, when a line perpendicular to a horizontal line that passes through an axis of the rotation shaft (541) is defined as a reference line, a first angle  $\alpha_1$  formed between the reference line and the first linear inner surface (512A) is less than a second angle  $\alpha_2$  formed between the reference line and the second linear inner surface (513A).

IPC 8 full level

**G03G 15/08** (2006.01)

CPC (source: EP KR US)

**G03G 15/08** (2013.01 - KR); **G03G 15/0868** (2013.01 - EP US); **G03G 15/0875** (2013.01 - EP US); **G03G 15/0893** (2013.01 - EP US); **G03G 2215/0668** (2013.01 - EP US)

Citation (examination)

- JP 2004272283 A 20040930 - RICOH KK
- US 5185631 A 19930209 - SHIBATA KIYOTAKA [JP]

Cited by

EP3287849A1; RU2660387C1; AU2017201424B2; US9996024B2; EP2587315B1

Designated contracting state (EPC)

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DOCDB simple family (publication)

**EP 2511773 A1 20121017**; **EP 2511773 B1 20190410**; CN 102736479 A 20121017; CN 102736479 B 20140618; JP 2012230350 A 20121122; JP 5740324 B2 20150624; KR 101457760 B1 20141103; KR 20120117650 A 20121024; US 2012263496 A1 20121018; US 8693927 B2 20140408

DOCDB simple family (application)

**EP 12164066 A 20120413**; CN 201210083720 A 20120327; JP 2012026991 A 20120210; KR 20120036667 A 20120409; US 201213445494 A 20120412